

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/002529 A3

(51) International Patent Classification⁷: **C12P 21/08**,
C07K 16/28

(21) International Application Number:
PCT/US2004/009622

(22) International Filing Date: 29 March 2004 (29.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/458,869 28 March 2003 (28.03.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
30 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMMUNOGENICITY-REDUCED ANTI-CR1 ANTIBODY AND COMPOSITIONS AND METHODS OF TREATMENT BASED THEREON

(57) Abstract: The invention provides immunogenicity-reduced antibodies or antibody fragments that bind a human CR1 receptor. The immunogenicity-reduced anti-CR1 antibody of the invention comprises one or more non-human sequences modified to comprise one or more amino acid substitutions so that the immunogenicity-reduced antibody is non-immunogenic or less immunogenic to a human. The invention also provides bispecific molecules comprising such an immunogenicity-reduced anti-CR1 antibody and an antigen-recognition portion that binds a pathogen. The invention further provides methods and compositions for the treatment of diseases or disorders caused by a blood-borne immunogenic pathogen using the bispecific molecule of the invention.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/09622

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12P 21/08; C07K 16/28

US CL : 530/387.3, 388.22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 530/387.3, 388.22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HOGG, N. et al. Identification of an anti-monocyte monoclonal antibody that is specific for membrane complement receptor type one (CR1). European Journal of Immunology, March 1984, Vol. 14, No. 3, pages 236-243, see entire document.	1-63

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Date of the actual completion of the international search

21 March 2005 (21.03.2005)

Date of mailing of the international search report

09 MAY 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/09622

Continuation of B. FIELDS SEARCHED Item 3:
SEQ ID NO:2 in sequence database
WEST; STN.Medline, Embase, Scisearch
TERMS: CRI, antibody, mAb "E11"